Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/F-Aggregate/501/2020-21	Date	20.12.2020

TEST REPORT ON FINE AGGRERGATE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	18.12.2020
Date of Testing	18.12.2020
Technical Referance	IS: 2386 (Part I)– 1963 , IS: 383 – 2016

GRADATION OF FINE AGGEGATES

Weight of Sample			1000	g	PERCENTAGE OF PASSING (GRADING)			
Sieve No	Weight of Sample	Percentage of Retained sample	Cumulative Percentage of Retained sample	Percentage Finer	Zone-I	*Zone-II*	Zone-II	zone-IV
10	0	0	0	100	100	*100*	100	100
4.75	12.6	1.26	1.26	98.74	90 – 100	*90 – 100*	90 – 100	90-100
2.36	28.6	2.86	4.12	95.88	60 – 95	*75 – 100*	85 – 100	95-100
1.18	201.8	20.18	24.30	75.70	30 – 70	*55 – 90*	75 – 100	90-100
0.6	332.6	33.26	57.56	42.44	15 – 34	*35 – 59*	60 – 79	80-100
0.3	256.8	25.68	83.24	16.76	5 – 20	*8 – 30*	12 – 40	15-50
0.15	162.8	16.28	99.52	0.48	0 – 10	*0 – 10*	0 – 10	0-15

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved
Narayanswamy B

Karnataka Material Test House Pvt Ltd Bangalore

Note
1. This report is not to be reproduced/Expect in full without our permission in writing
2. The results listed refer only to the samples and applicable parameters.
3. Any correction in this report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/F-Aggregate/502/2020-21	Date	20.12.2020

TEST REPORT ON FINE AGGRERGATE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	18.12.2020
Date of Testing	18.12.2020
Technical Referance	IS: 2386 (Part I)– 1963 , IS: 383 – 2016

GRADATION OF FINE AGGEGATES

Weight of Sample			1000	g	PERCENTAGE OF PASSING (GRADING)			
Sieve No	Weight of Sample	Percentage of Retained sample	Cumulative Percentage of Retained sample	Percentage Finer	Zone-I	*Zone-II*	Zone-II	zone-IV
10	0	0	0	100	100	*100*	100	100
4.75	10.2	1.02	1.02	98.98	90 – 100	*90 – 100*	90 – 100	90-100
2.36	56.8	5.68	6.70	93.30	60 – 95	*75 – 100*	85 – 100	95-100
1.18	186.4	18.64	25.34	74.66	30 – 70	*55 – 90*	75 – 100	90-100
0.6	212.5	21.25	46.59	53.41	15 – 34	*35 – 59*	60 – 79	80-100
0.3	225.4	22.54	69.13	30.87	5 – 20	*8 – 30*	12 – 40	15-50
0.15	188.4	18.84	87.97	12.03	0 – 10	*0 – 10*	0 – 10	0-15

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

ಸಹಾಯಕ ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ
ಬಿ.ಬ.ಬಾ.ಪ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt Ltd * Bangalore *

Note
1. This report is not to be reproduced in part or in full without our permission in writing
2. The results listed refer only to the samples and applicable parameters.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

eport No	KMTH/F-Aggregate/503/2020-21	Date	20.12.2020

TEST REPORT ON FINE AGGRERGATE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	18.12.2020
Date of Testing	18.12.2020
Technical Referance	IS: 2386 (Part I)– 1963 , IS: 383 – 2016

GRADATION OF FINE AGGEGATES

Weight of Sample			1000	g	PERCENTAGE OF PASSING (GRADING)			
Sieve No	Weight of Sample	Percentage of Retained sample	Cumulative Percentage of Retained sample	Percentage Finer	Zone-I	*Zone-II*	Zone-II	zone-IV
10	0	0	0	100	100	*100*	100	100
4.75	8.6	0.86	0.86	99.14	90 – 100	*90 – 100*	90 – 100	90-100
2.36	16.4	1.64	2.50	97.50	60 – 95	*75 – 100*	85 – 100	95-100
1.18	216.4	21.64	24.14	75.86	30 – 70	*55 – 90*	75 – 100	90-100
0.6	215.2	21.52	45.66	54.34	15 – 34	*35 – 59*	60 – 79	80-100
0.3	265.4	26.54	72.20	27.80	5 – 20	*8 – 30*	12 – 40	15-50
0.15	236.4	23.64	95.84	4.16	0 – 10	*0 – 10*	0 – 10	0-15

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

End of Report

Approved by
Narayanswamy.B

Note
1. This report is not to be reproduced expect in full without our permission in writing
2. The results listed refer only to the samples and applicable parameters.

Off & Lab: No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/507/2020-21	Date	18.12.2020

TEST REPORT ON COARSE AGGRERGATE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No 19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	26.12.2020
Date of Testing	27.12.2020
Technical Referance	IS: 2386 (Part I)– 1963 IS: 383 – 2016

GRADATION OF COARSE AGGEGATES

20mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
40	0	0.00	0.00	100.00	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 20mm.
20	384.6	7.69	7.69	92.31	85-100	90 to 100	
10	4375	87.50	95.19	4.81	0 to 20	25 to 55	
4.75	162.4	3.25	98.44	1.56	0 to 5	0 to 10	

40mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
63	0	0.00	0.00	100	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 40mm.
40	586	11.72	11.72	88.28	85-100	90 to 100	
20	3682	73.64	85.36	14.64	0 to 20	30 to 70	
10	324	6.48	91.84	8.16	0 to 5	10 to 25	
4.75	6.8	0.14	91.98	8.02	-	0 to 5	

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

End of Report

Note 1 This report is not to be reproduced except in full without our permission in writing

2. The results listed refer only to the samples and applicable parameters.

3. Any correction in this report invalidates it.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/508/2020-21	Date	18.12.2020

TEST REPORT ON COARSE AGGRERGATE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No.19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	26.12.2020
Date of Testing	27.12.2020
Technical Referance	IS: 2386 (Part I)– 1963 IS: 383 – 2016

GRADATION OF COARSE AGGEGATES

20mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
40	0	0.00	0.00	100.00	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 20mm.
20	224.6	4.49	4.49	95.51	85-100	90 to 100	
10	3865.2	77.30	81.80	18.20	0 to 20	25 to 55	
4.75	716	14.32	96.12	3.88	0 to 5	0 to 10	

40mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
63	0	0.00	0.00	100	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 40mm.
40	368	7.36	7.36	92.64	85-100	90 to 100	
20	4086	81.72	89.08	10.92	0 to 20	30 to 70	
10	362.4	7.25	96.33	3.67	0 to 5	10 to 25	
4.75	89.6	1.79	98.12	1.88	-	0 to 5	

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanaswamy B

End of Report

Note 1. This report is not to be reproduced except in full without our permission in writing
2. The results listed refer only to the samples and applicable parameters
3. Any correction or alteration of this report renders it invalid

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/509/2020-21	Date	18.12.2020

TEST REPORT ON COARSE AGGRERGATE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	26.12.2020
Date of Testing	27.12.2020
Technical Referance	IS: 2386 (Part I)– 1963 IS: 383 – 2016

GRADATION OF COARSE AGGEGATES

20mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
40	0	0.00	0.00	100.00	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 20mm.
20	208.6	4.17	4.17	95.83	85-100	90 to 100	
10	3965.2	79.30	83.48	16.52	0 to 20	25 to 55	
4.75	816	16.32	99.80	0.20	0 to 5	0 to 10	

40mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
63	0	0.00	0.00	100	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 40mm.
40	326.4	6.53	6.53	93.47	85-100	90 to 100	
20	3986	79.72	86.25	13.75	0 to 20	30 to 70	
10	526.8	10.54	96.78	3.22	0 to 5	10 to 25	
4.75	89.6	1.79	98.58	1.42	-	0 to 5	

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪವಿಭಾಗ.

End of Report

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt. Ltd. Bangalore

Note 1. This report is not to be reproduced expect in full without our permission in writing

2. The results listed refer only to the samples and applicable parameters

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

:port No	KMTH/Cement/521/2020-21	Date	31.12.2020

PHYSICAL TEST REPORT ON CEMENT

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	22.12.2020
Date of Testing	29.12.2020
Technical Referance	IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 8112-1989

Sl. No.	Test Conducted	Results	IS: 8112-1989 Stipulation	Remarks
1	Normal consistency in %	27	Not specified	-
2	Initial setting time in	151	Shall not be less than 30 minutes	P
3	Final setting time in minutes	309.4	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) in N/mm2			
a	72+1h (3 days)	25.86	Shall not be less than 23.0 MPa	P
b	168+2h (7 days)	35.52	Shall not be less than 33.0 MPa	P
c	672+4h (28 days)	45.71	Shall not be less than 43.0 MPa	P

** As furnished by the client*

P : Passes IS requirement F: Fails IS requirements

TTC : Test to be conducted

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd Bangalore

.....End of Report.....

Note
1. This report is not to be reproduced expect in full without our permission in writing
2. The results listed refer only to the samples and applicable parameters.
3. Any correction in this report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph. 080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

t No	KMTH/Cubes/527/2020-21	Date	24.01.2021

TEST RESULTS ON CONCRETE CUBES

ne of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	02.01.2021
Date of Sample Received	22.01.2021
Source of Sample	Supplied by the Client
Date of Testing	23.01.2021
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M10

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by the client and the results are tabulated here below

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm^2
1	PCC Drain Concrete	27.12.2020	23.01.2021	28 Days	22500.00	8015	366.3	16.28
2		27.12.2020	23.01.2021		22500.00	8025	378.8	16.84
3		27.12.2020	23.01.2021		22500.00	8020	372.8	16.57

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved By
Narayanswamy.S

Karnataka Material Test House Pvt.Ltd. Bangalore

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

		Date	07.01.2021
rt No	KMTH/Cubes/528/2020-21		

TEST RESULTS ON CONCRETE CUBES

me of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK D/EPMT-04/W O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	02.01.2021
Date of Sample Received	06.01.2021
Source of Sample	Supplied by the Client
Date of Testing	07.01.2021
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M10

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	PCC Drain Concrete	31.12.2020	07.01.2021	7 Days	22500.00	8326	312.6	13.89
2		31.12.2020	07.01.2021		22500.00	8296	322.2	14.32
3		31.12.2020	07.01.2021		22500.00	8326	319.8	14.21

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

End of Report.....

Approved by
Narayanswamy

Karnataka Material Test House Pvt Ltd * Bangalore *

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

rt No	KMTH/Cubes/529/2020-21	Date	27.01.2021

TEST RESULTS ON CONCRETE CUBES

me of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd , Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	02.01.2021
Date of Sample Received	26.01.2021
Source of Sample	Supplied by the Client
Date of Testing	
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M10

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	PCC Drain Concrete	31.12.2020	27.01.2021	28 Days	22500.00	7998	378.8	16.84
2		31.12.2020	27.01.2021		22500.00	8125	382.2	16.99
3		31.12.2020	27.01.2021		22500.00	8006	383.4	17.04

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬ.ಮ.ನ.ಪ. ಕೆಂಗೇರಿಉಪನಗರ-100

End of Report

Approved by
Narayanswamy B

Karnataka Material Test House Pvt. Ltd. * Bangalore *

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

		Date	01.02.2021
rt No	KMTH/Cubes/545/2020-21		

TEST RESULTS ON CONCRETE CUBES

ame of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	04.01.2021
Date of Sample Received	01.02.2021
Source of Sample	Supplied by the Client
Date of Testing	01.02.2021
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	Drain wall Concrete	04.01.2021	01.02.2021	28 Days	22500.00	8246	585.8	26.04
2		04.01.2021	01.02.2021		22500.00	8262	592.4	26.33
3		04.01.2021	01.02.2021		22500.00	8252	588.0	26.13

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanaswamy M.H

Karnataka Material Test House Pvt Ltd. Bangalore

Note:
1)This reports is not to be reproduced except in full without our prior permission in writing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Rpt No	KMTH/Cubes/547/2020-21	Date	10.02.2021

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd , Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	18.01.2021
Date of Sample Received	10.02.2021
Source of Sample	Supplied by the Client
Date of Testing	10.02.2021
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	Drain wall Concrete	11.01.2021	10.02.2021	28 Days	22500.00	8163	596.4	26.51
2		11.01.2021	10.02.2021		22500.00	8086	588.7	26.16
3		11.01.2021	10.02.2021		22500.00	8146	592.6	26.34

1N/Sq.mm=10kg/Sq cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanaswamy M

Karnataka Material Test House Pvt Ltd Bangalore

Note:
1)This reports is not to be reproduced except in full without our prior permission in writing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

		Date	05.02.2021
ort No	KMTH/CCslabs/562/2020-21		

TEST RESULTS ON CEMENT CONCRETE SLAB SAMPLES

ame of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd , Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	03.02.2021
Date of Sample Received	03.02.2021
Source of Sample	Supplied by the Client
Number of Specimens*	3 No`s Cement Concrete Slabs
Size & Shape of Sample	slab Length -920mm, Height-100mm,Width600mm
Date of Testing	05.02.2021

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq mm	Load KN	Comp. Strength. N/Sq mm	C.F H/D x 0.11 + 0.78	C.C.F N/Sq mm	E.C.S.C N/Sq mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
100mm Slab														
1	S-01	94.79	99.87	1.05	7053	136.8	19.40	0.90	17.38	21.72	21.8	2.2640	0.00070	3214.01
2	S-02	94.95	99.97	1.05	7077	139.4	19.70	0.90	17.65	22.06		2.2480	0.00071	3177.36
3	S-03	94.98	99.86	1.05	7082	137.2	19.37	0.90	17.35	21.69		2.4680	0.00071	3489.95

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS 516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd. Bangalore

Note: 1)This reports is not to be reproduced except in full without our prior permission in writing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCslabs/564/2020-21	Date	16.02.2021

TEST RESULTS ON CEMENT CONCRETE SLAB SAMPLES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	16.02.2021
Date of Sample Received	16.02.2021
Source of Sample	Supplied by the Client
Number of Specimens*	3 No`s Cement Concrete Slabs
Size & Shape of Sample	slab Length -920mm, Height-100mm,Width600mm
Date of Testing	16.02.2021

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq mm	Load KN	Comp. Strength N/Sq mm	C.F H/D x 0.11 + 0.78	C.C.F N/Sq mm	E.C.S.C N/Sq mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
100mm Slab														
1	S-01	94.86	99.68	1.05	7064	139.8	19.79	0.90	17.72	22.16	22.4	2.2260	0.00070	3161.41
2	S-02	94.86	99.88	1.05	7064	141.6	20.05	0.90	17.96	22.45		2.2460	0.00071	3183.43
3	S-03	94.77	99.86	1.05	7050	142.8	20.25	0.90	18.15	22.68		2.2320	0.00070	3170.23

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd ,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanaswamy M B

Karnataka Material Test House Pvt Ltd * Bangalore *

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ ಉಪವಿಭಾಗ
ಜಿ.ಬಿ.ಬಿ.ಎಂ. ಬೆಂಗಳೂರು-10

Engineer

Note: 1)This reports is not to be reproduced except in full without our prior permission in writing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCKerbs/579/2020-21	Date	02.03.2021

TEST RESULTS ON CEMENT CONCRETE KERBS SAMPLES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	28.02.2021
Date of Sample Received	28.02.2021
Source of Sample	Supplied by the Client
Number of Specimens*	3 No`s Cement Concrete Kerbs
Size & Shape of Sample	Kerbs Length -450mm, Height-400mm,Width-(top-114+bottom-165)mm
Date of Testing	02.03.2021

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq mm	Load KN	Comp. Strength. N/Sq mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq mm	E.C.S.C N/Sq mm	Avg. N/Sq mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	94.75	186.80	1.97	7047	132.8	18.84	1.00	18.78	23.48	24	2.5680	0.00132	1950.70
2	S-02	94.76	187.80	1.98	7049	136.4	19.35	1.00	19.31	24.14		2.6200	0.00132	1979.18
3	S-03	94.77	188.40	1.99	7050	138.8	19.69	1.00	19.66	24.58		2.5860	0.00133	1946.87

*As furnished by the Client

Note, A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd. Bangalore

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/594/2020-21	Date	25.01.2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	23.01.2021
Source of Sample	Supplied by the Client
Date of Testing	24.01.2021
Technical Referance	MORTH Specifications

WMM MATERIAL ***10000***

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	312	312	3.12	96.88	95-100
22.4	2718	3030	30.30	69.70	60-80
11.2	2562	5592	55.92	44.08	40-60
4.75	1522	7114	71.14	28.86	25-40
2.36	1204	8318	83.18	16.82	15-30
0.6	882	9200	92.00	8.00	8--22
0.75	526	9726	97.26	2.74	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.75	Should not be more than 2%
2	Flakiness & Elongation Index	28.0%	Shall not be more than 40%
3	Aggregate Crushing Value	20.0%	Shall not more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd ,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt. Ltd. Bangalore

Note:
1)This reports is not to be reproduced except in full without our prior permission in writing.
2)The results listed refer only to the tested sample and applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/596/2020-21	Date	29.01.2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout inward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	28.01.2021
Source of Sample	Supplied by the Client
Date of Testing	28.01.2021
Technical Referance	MORTH Specifications

WMM MATERIAL — 10000

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	326.4	326.4	3.26	96.74	95-100
22.4	2486	2812.4	28.12	71.88	60-80
11.2	3100.2	5912.6	59.13	40.87	40-60
4.75	1362	7274.6	72.75	27.25	25-40
2.36	1008.4	8283	82.83	17.17	15-30
0.6	726	9009	90.09	9.91	8--22
0.75	986.2	9995.2	99.95	0.05	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.86	Should not be more than 2%
2	Flakiness & Elongation Index	28.4%	Shall not be more than 40%
3	Aggregate Crushing Value	25.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

* As furnished by the client

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt. Ltd. Bangalore

Note:
1)This reports is not to be reproduced exc[illegible] in full without our prior permission in writing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/619/2020-21	Date	30.01.2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd , Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout inward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	003-21-000046
Job Code No	16.01.2021
Clients Letter Dated	29.01.2021
Source of Sample	Supplied by the Client
Date of Testing	30.01.2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	28.4	28.4	2.84	97.16	90-100
9.5	246.9	275.3	27.53	72.47	70-88
4.75	156.4	431.7	43.17	56.83	53-71
2.36	112.6	544.3	54.43	45.57	42-58
1.18	79.8	624.1	62.41	37.59	34-48
0.6	92.4	716.5	71.65	28.35	26-38
0.3	54.8	771.3	77.13	22.87	18-28
0.15	52.6	823.9	82.39	17.61	12--20
0.075	86.4	910.3	91.03	8.97	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.0	479.2	30.80	6.04
2	498.0	465.8	32.20	6.47
3	516.4	482.8	33.60	6.51
4	528.4	497.2	31.20	5.90

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved By
Narayanswamy.B

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಪಶ್ಚಿಮ ವಲಯ, ಬೆಂಗಳೂರು-106

This reports is not to be reproduced except in full, without our prior permission in writing.

Note: 1)This reports is not to be reproduced except in full, without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters

Off & Lab : No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/630/2020-21	Date	23.01.2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	22.01.2021
Source of Sample	Supplied by the Client
Date of Testing	23.01.2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***	***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	42.7	42.7	4.27	95.73	90-100
19	214.2	256.9	25.69	74.31	71-95
13.2	167.4	424.3	42.43	57.57	56-80
4.75	110.2	534.5	53.45	46.55	38-54
2.36	126.2	660.7	66.07	33.93	28-42
0.3	192.8	853.5	85.35	14.65	7--21
0.075	100.2	953.7	95.37	4.63	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	528.4	501.2	27.20	5.15
2	525.2	497.2	28.00	5.33
3	526.8	496.8	30.00	5.69
4	530.2	501.2	29.00	5.47

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd. Bangalore

Note:
1)This reports is not to be reproduced except in full without prior permission in writing.
2)The results listed refer only to the tested samples for applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/634/2020-21	Date	27.01.2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri P Damodara Raju, No:19, 1st Main, Nrupatunganagara, J.P Nagara Bangalore-560078
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	"Comprehensive Development of roads and drains at Deo marvel layout ,AMS layout, swagath layout, akashavani layout, chowdappa layout and GKVK layout in ward no 3 & 4 of yelahanka division (PACKAGE NO-03)"
Work Order No	NO.BBMP/EE/YNK.D/EPMT-04/W.O/165/2020-21
Job Code No	003-21-000046
Clients Letter Dated	26.01.2021
Source of Sample	Supplied by the Client
Date of Testing	27.01.2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	51.2	51.2	5.12	94.88	90-100
19	206.2	257.4	25.74	74.26	71-95
13.2	142.6	400	40.00	60.00	56-80
4.75	100.2	500.2	50.02	49.98	38-54
2.36	142.6	642.8	64.28	35.72	28-42
0.3	178.6	821.4	82.14	17.86	7--21
0.075	126.8	948.2	94.82	5.18	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.0	481.6	28.40	5.57
2	495.8	470.1	25.70	5.18
3	530.0	500.2	29.80	5.62
4	510.0	481.2	28.80	5.65

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

Karnataka Material Test House Pvt Ltd Bangalore

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested sample and applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL